



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4052	DISPATCH DATE				10.10.2014
2.	Railway	SWR	Type	LWACCN	Coach No.	14146	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
6.1	Leading Dimensions:						
i)	Maximum length over Body	23700+10/-0 mm					
ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)					
iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)					
iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105			
v)	Buffer/CBC (Make)	ESCORTS	Fiba Device	NIL			
7.	Air Brake Testing:	Description		Specified	Observed		
7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	6 –10 sec	6 Sec			
		Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.80			
		All Brake are applied	OK	OK			
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK			
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK			
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
8.1	PAINT	PU PAINT	VIBGYOR	87/86			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT					FAIVELEY	
ii.	CDTS/ BIO TOILET					DARSHAN	
iii.	SEATS/ BERTHS					AAR KAY FOAMS	
iv.	BODY SIDE DOOR					SUKATA	
v.	VESTIBULE SLIDING DOOR					JBM	
vi.	SALOON DOOR					NA	
vii.	WATER TANKS					AMIT & SHIVALIK	
viii.	UIC VESTIBULE					KRP	
ix	FLOOR BOARD & PVC					TAYAL & REPNOSIVE	
10.							
10.1	Modification / Trail (if any):					NIL	
10.2	Deviations if any:					NIL	



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date		
			4052		SWT		LWACCN		14146		09-09-2014		
12.1	Wheel & Axle Details:		PP Side						NPP Side				
	i.	Bogie No.	146777						146778				
	ii.	Frame No.	FIAT-3434						FIAT-3368				
	iii.	Bolster No.	4151-BT						4156-BT				
	iv.	Axle No.	106170/630		106683/632		106620/632		106178/630				
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00		
	vi.	Wheel Disc No.	169- 11603	159- 11603	190- 10570	225- 10559	360- 11605	352- 11607	188- 10583	091- 11611			
	vii.	R.B. Nos.	36274	36353	01213	35966	36000	36053	01089	01339			
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN				
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING										
12.2	Secondary suspension load deflection Values:												
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2					
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner				
i.	Make & nos.	G13-4- 787	G13-4- 5207	G13-4- 793	G213-4- 4748	G13-4- 726	G13-4- 5202	G13-4- 770	G13-4- 4770				
ii.	Ht. attest load	514	465	513	466	514	465	514	465				
iii.	Align .deviation	20	13	19	13	20	18	20	20				
12.3	Items traceability:												
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make				
	i.	Primary Outer Spring			G-13-3A		G13-3A		GF				
	ii.	Primary inner Spring			G-12-5		G1-12-5		GF				
	iii.	Primary Damper							KONI				
	iv.	Secondary damper							GEREP				
	v.	Lateral Damper							KONI				
	vi.	Yaw Damper							NIL				
	vii.	Brake cylinder & Caliper							FTI				
	viii.	Brake Disc							FTI				
	ix.	Ball joint Control arm							GMT				
	x.	Lateral Bump stop							GMT				
	xi.	Traction center make							SARITA				
	xii.	Traction lever make							SARITA				
	xiii.	Ball joint traction lever							SGA				
	xiv.	Traction centre elastic							SGA				
	xv.	Secondary rubber pad							TESPAK				
	xvi.	Rubber spring							GMT				
	xvii.	Anti roll bar make							SARITA				
	xviii.	Ball joint roll link							SARITA				
	xix.	Fork make							EMSON				
12.4	i.	Modification / Trial (if any):					NIL						
	ii.	Deviations (if any):					NIL						



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4078	DISPATCH DATE			11.10.2014	
2.	Railway	SWR	Type	LWACCN	Coach No.	14147	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make)	ESCORTS	Fiba Device	NIL		
7.	Air Brake Testing:		Description	Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.80		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	87/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	FAIVELEY				
	ii.	CDTS/ BIO TOILET	DARSHAN				
	iii.	SEATS/ BERTHS	SAVITRI				
	iv.	BODY SIDE DOOR	JBM, SUKATA				
	v.	VESTIBULE SLIDING DOOR	JBM				
	vi.	SALOON DOOR	NA				
	vii.	WATER TANKS	E C BLADE & SHIVALIK				
	viii.	UIC VESTIBULE	KRP				
	ix.	FLOOR BOARD & PVC	TAYAL & REPONSIVE				
10.							
	10.1	Modification / Trail (if any):	NIL				
	10.2	Deviations if any:	NIL				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4078		SWR		LWACCN		14147		25-09-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146821						146822			
	ii.	Frame No.	FIAT-3473						FIAT-3475			
	iii.	Bolster No.	3980-P						3988-P			
	iv.	Axle No.	126547/481			128582/983			125769/473		126438/481	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	915.00	915.00	915.00	915.00
	vi.	Wheel Disc No.	152-61077	277-10583	233-10583	173-10533	185-10570	280-63301	219-63307	006-61077	63307	61077
	vii.	R.B. Nos.	36839	30938	32042	36832	36510	36827	31013	36843	31013	36843
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	G-12-8-446	G-12-11-4009	G-12-8-315	G-12-11-3711	G-12-8-545	G-12-11-3970	G-12-8-324	G-12-11-3680			
ii.	Ht. attest load	512	467	512	467	513	467	511	467			
iii.	Align .deviation	18	26	22	26	11	17	15	19			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-03-13			L&S-03-13			L&S	
	ii.	Primary inner Spring			L&S-02-13			L&S-02-13			L&S	
	iii.	Primary Damper									SACHS	
	iv.	Secondary damper									SACHS	
	v.	Lateral Damper									KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									GMT	
	x.	Lateral Bump stop									GMT	
	xi.	Traction center make									EMSON	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									SGA	
	xiv.	Traction centre elastic									SGA	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
12.4	i.	Modification / Trial (if any):			NIL							
	ii.	Deviations (if any):			NIL							

LWACCN-4078